CASE DOCKET NO.:

6059.11003

APPLICANTS:

Martin J. Murphy, Kenneth L. Cummins and Alburt E. Pifer

APPLICATION TITLE:

[] Copy of priority document.

Lightning Detection and Data Acquisition System

CERTIFICATE OF MAILING

CERTIFICATE OF WAILING
I hereby certify that the items listed below are being deposited with the United States Postal Service utilizing the
"EXPRESS MAIL POST OFFICE TO ADDRESSEE" service, mailing label number EL 916899776 US,
under 37 CFR 1.10 in an envelope addressed to: BOX PATENT APPLICATION, Commissioner for Patents,
Wishington, D.C. 20231, on the 1/3 day of February, 2002.
washington, D.C. 20231, on the <u>75</u> day of February, 2002.
Alice Vanicek
Alice Vanicek
Englosed are:
[X] Itemized return postcard.
[X] A check in the amount of \$1,728 to cover the filing and recordation fees.
[] Provisional Application for Patent Cover Sheet
[X] Utility Patent Application Transmittal sheet.
[X] Fee Transmittal sheet (in duplicate).
[X] Declaration for Utility or Design Patent Application.
[X] Power of Attorney or Authorization of Agent.
[X] Statement Under 37 CFR 3.37(b).
[X] An assignment agreement and recordation cover sheet.
[X] A specification of the invention and claims.
[X] Thirty-six sheets of drawings.
[] photographs submitted as informal drawings for reference
purposes only.
[X] An information disclosure statement.

TITLE OF INVENTION: LIGHTNING DETECTION AND DATA ACQUISITION

SYSTEM

INVENTORS: Martin J. Murphy

Kenneth L. Cummins

Alburt E. Pifer

ATTORNEY: William A. Birdwell

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ATTORNEY DOCKET NO.: 6059.11003

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- Brief Summary of the Invention

- Detailed Description

- Abstract of the Disclosure

- Claim(s)

5. Oath or Declaration

| X |

Sianature

Brief Description of the Drawings (if filed)

Drawing(s) (35 U.S.C. 113) [Total Sheets



PTO/SB/05 (03-01) Approved for use through 10/31/2002, OMB 0651-0032 Please type a plus sign (+) inside this box — + U.S. Petent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. UTILITY 6059.11003 Attomey Docket No. PATENT APPLICATION Martin J. Murphy First Inventor TRANSMITTAL Lightning Detection and Data* Title (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. EL 916899776 US Assistant Commissioner for Patents **APPLICATION ELEMENTS** ADDRESS TO: **Box Patent Application** See MPEP chapter 600 concerning utility patent application contents. Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or (Submit an original and a displicate for fee procession Computer Program (Appendix) Applicant claims small entity status... 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (if applicable, all necessary) Total Pages
sered arrangement set forth below) Specification Computer Readable Form (CRF) - Descriptive title of the invention Specification Sequence Listing on: Cross Reference to Related Applications i. CD-ROM or CD-R (2 copies); or - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix Statements verifying identity of above copies Background of the Invention

ACCOMPANYING APPLICATION PARTS

37 CFR 3.73(b) Statement

(when there is an assignee)

Statement (IDS)/PTO-1449

Information Disclosure

Assignment Papers (cover sheet & document(s))

English Translation Document (if applicable)

Power of

Attorney

Citations

Copies of IDS

b. Copy from a (for continua i. DELET Signed standard in the 1.63(d)(2)	uted (original or copy) prior application (37 CFR 1.63 (d)) tion/divisional with Box 18 complete ION OF INVENTOR(S) tement attached deleting inventor(s) the prior application, see 37 CFR and 1.33(b). Sheet. See 37 CFR 1.76	13. [14. [15. [16. [14. X Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.			
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No Prior application information: Examinar Group Art Unit: For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation gan only be relied upon when a portion has been inadvertently omlitted from the submitted application parts.						
19. CORRESPONDENCE ADDRESS						
Customer Number or Bar Code Label (Ansart Customer Na. or Albert) Sar or			m X	Correspondence a	ddress below	
Name	William A. Bir	dwell				
	Durando Birdwell & Janke, P.L.C.					
Address	2929 E. Broadway Blvd.					
City	Tucson	State	AZ	Zip Code	85716	
Country	USA	Telephone	520-881-944	2 Fax	520-881- 9448	
Name (Print/Type)	Type) William A. Birdwell Registration No. (Attorney/Agent) 27,181					

36

[Total Pages

12. X

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FEE TRANS	CANITT AI	Complete if Known				
FEE IRAN	DIALLLAF	Application Number				
for FY	2002	Filing Date				
Patent fees are subject to		First.Named Inventor	Martin J. Murphy			
		Examiner Name				
Applicant claims small entity status.		Group Art Unit				
TOTAL AMOUNT OF PAYMENT	(\$) 1,728.00	Attorney Docket No.	6059.11003			

Attorney Docket No.

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)					
X Check	Credit card	Money Other	None	3. A	DDIT	ION	AL FE	ES	
Deposit A	Account	C Order C 2000 C		<u>Large</u>	Large Entity Small Entity				
Deposit Account		2451	7	Fee Code	Fee e (\$)	Fee Cod	Fee e (\$)	Fee Description	Fee Paid
Number	02-	2431	4	105	130	205	65	Surcharge - late filing fee or oath	
Maille		l Janke & Durando	<u>)</u>	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
_	oner is autho (s) indicated be	rized to: (check all that apply)	no oto	139	130	139	130	Non-English specification	
		s) during the pendency of this app		147	2,520	147	2,520	For filing a request for ex parte reexamination	
=		elow, except for the filing fee		112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
to the aboveid		· · ·		113	1,840*	113	1,840°	Requesting publication of SIR after	
•	FEE C	ALCULATION				l		Examiner action	
1. BASIC FI	LING FEE			115	110	215	55	Extension for reply within first month	
Large Entity				116	400	216	200	Extension for reply within second month	
Fee Fee Code (\$)	Fee Fee Code (\$)	Fee Description Fee i	Paid	117	920	217	460	Extension for reply within third month	
101 740	201 370	Utility filing fee	401	118	1,440	218	720	Extension for reply within fourth month	
106 330	206 165	Design filing fee	-	128	1,960	228	980	Extension for reply within fifth month	
107 510	207 255	Plant filing fee		119	320	219	160	Notice of Appeal	
108 740	208 370	Reissue filing fee	\neg	120	320	220	160	Filing a brief in support of an appeal	
114 160	214 80	Provisional filing fee		121	280	221	140	Request for oral hearing	
		138	1,510	138	1,510	Petition to institute a public use proceeding			
SUBTOTAL (1) (\$) 740			140	110	240	55	Petition to revive - unavoidable		
2. EXTRA C	LAIM FEE	S FOR UTILITY AND REIS	SSUE	141	1,280	241	640	Petition to revive - unintentional	
			Paid	142	1,280	242	640 .	Utility issue fee (or reissue)	
Total Claims	68 -20	"= <u>48</u> × <u>18</u> = 8	<u> </u>	143	460	243	230	Design issue fee	
Independent Claims	4 - 3'	"= 1 x 84 =	34	144	620	244	310	Plant issue fee	
Multiple Depen	dent	=======================================		122	130	122	130	Petitions to the Commissioner	
				123	50	123	50	Processing fee under 37 CFR 1.17(q)	
Large Entity Fee Fee	Small Entity Fee Fee	Fee Description		126	180	126	180	Submission of Information Disclosure Stmt	
Code (\$) 103 18	Code (\$) 203 9	Claims in excess of 20		581	40	581	40	Recording each patent assignment per property (times number of properties)	40
102 84	202 42	Independent claims in excess of	13	146	740	246	370	Filing a submission after final rejection	
104 280	204 140	Multiple dependent claim, if no	paid					(37 CFR § 1.129(a))	
109 84	209 42	** Reissue independent claims over original patent		149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
110 18	210 9	** Reissue claims in excess of	20	179	740	279	370	Request for Continued Examination (RCE)	
·		and over original patent		169	900	169	900	Request for expedited examination of a design application	I
	SUE	STOTAL (2) (\$) 94	В	Other	fee (s	ecify)		
**or number	· naviovsky oni	d if ameter For Paissues see at		*Red	uced by	, Rasi	c Filina	Fee Paid SUBTOTAL (3) (\$)	40

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> SUBMITTED BY Complete (if applicable) Registration No. (Attorney/Agent) Name (Print/Type) Telephone 520-881-9442 William A. Birdwell 27,181 Signature Date

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STATEMENT UNDER 37 CFR 3.73(b) Applicant/Patent Owner: Martin J. Murphy, Kenneth L. Cummins and Alburt E. Pifer Application No./Patent No.:______Filed/Issue Date:___ Entitled: Lightning Detection and Data Acquisition System Global Atmospherics, Inc. , a corporation of Arizona (Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) states that it is: 1. \(\bigcirc \) the assignee of the entire right, title, and interest; or 2. an assignee of less than the entire right, title and interest. The extent (by, percentage) of its ownership interest is _____% in the patent application/patent identified above by virtue of either: A. [X] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame ____, or for which a copy thereof is attached. OR B. [] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: 1. From:___ _____To:___ The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame____, or for which a copy thereof is attached. 2. From: The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame_____, or for which a copy thereof is attached. _____To:___ The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame_____, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet. [] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. February 12, 2082 Kenneth L. Cummins Typed or printed name vice President Signature Research and Development

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